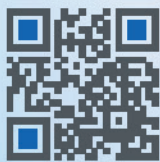


STAINLESS STEEL WELDING FLANGES



※ 본 카탈로그는 참고용이므로 승인용으로 사용하실 수 없습니다.

○ Greeting

당사는 1987년 법인 설립 이래 다양한 밸브와 관련 부자재를 생산하여 공급하고 있습니다. 국내최대 밸브종합 메이커로서 소구경 밸브에서, 대구경 화학, 플랜트용까지 고부가 사업육성, 지속적인 신제품 개발, 품질업그레이드로 세계최초로 전기절연볼밸브 개발 및 특허 획득, ISO, API, Fire Test, CE, GOST, KS, EM 등 세계적인 인증마크를 획득 하였습니다. 항상 무결점 품질을 유지하고자 최선의 노력을 다하고 있으며, ISO-9001:2008, API Q1 & 6D, PED의 요구사항과 고객의 요구사항에 따르며, 최고의 품질로서 고객에게 최고의 신뢰를 주는 것을 품질경영이념으로 정하고, 실천에 옮기도록 노력하고 있습니다. 또한 전사원의 품질경영 의식화, 소비자 요구품질 생산, 전사원의 기술향상이라는 경영이념 아래 전사원이 일치단결하여 국제사회의 필수조건인 품질과 가격을 합리적으로 이룩하여 고객의 요구를 충족시킴과 동시에 한국 경제 발전에 이바지할 수 있도록 노력하고 있습니다.

Korea TOP 1, Global Marketing, Customer First라는 21C VISION을 설정하고
세계일류밸브 종합메이커로의 도약, 더욱 진일보된 밸브전문회사로 미래를 열어 나아갈 것입니다.

주식회사 화 성



본사 및 제1공장



경산 제2공장



경산 제3공장

○ Company Profile

은탑산업훈장 수훈(지식경제부 신기술실용화촉진대회)
동탑산업훈장 수훈(대한민국가스안전대상)



1987~1990

- 1987. 03 화성산업사 설립
- 1987. 04 주식회사 화성 법인 설립

1991~2000

- 1996. 12 96년 중소기업 대상 수상(대구광역시장)
- 1996. 12 절연 볼밸브 EM인증서 획득
- 1997. 11 가스안전촉진대회 대통령상 표창 수상
- 1998. 09 대구은행 유망중소기업지정
- 1999. 03 ISO9001 & API-6D 인증서 획득
- 1999. 09 벤처기업선정(제 1999132439-255 호)
- 1999. 09 cUL 인증획득(SA12071-210999)
- 1999. 10 신기술실용화대회 대통령표창 수상
- 1999. 11 '99대구중소기업인대회 표창장 수상
- 2000. 02 기술경쟁력 우수기업 지정
- 2000. 03 코스닥증권시장 상장

2001~2010

- 2001. 03 Fire tests(Ball valve) 인증서
- 2001. 10 우량기술기업선정 - 기술신용보증기금
- 2001. 11 신기술실용화대회 대통령표창 수상
- 2002. 02 경산진량공단제2공장신축준공
- 2003. 03 조세의 날 경제부총리 표창

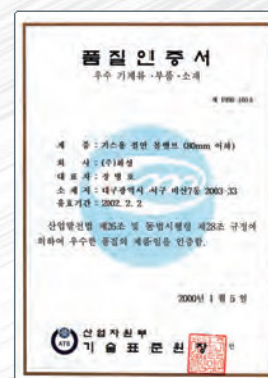
2001~2010

- 2003. 06 가스안전촉진대회 가스안전유공자포상
- 2004. 01 CE인증 획득(CE0036)
- 2004. 07 경상북도지정 세계일류화중소기업 선정
- 2004. 12 Fire tests(Ball valve)-VELOSI KOREA
- 2006. 05 ISO 9001:2000[0588] 인증서 획득
- 2006. 05 ISO/TS 29001[TS-0125] 인증서 획득
- 2006. 05 API Specification Q1[Q1-0319] 인증서 획득
- 2006. 11 산업자원부 신기술실용화 촉진대회 은탑산업훈장 수훈
- 2008. 09 GOST-R 인증획득(POCC KR.AN50.B13106)
- 2008. 09 HYGIENIC 인증획득(2043523)
- 2009. 06 GOST RTN 인증획득

2011~

- 2011. 02 현대중공업 밴더승인(Chevron사 GSEP Project)
- 2011. 03 국민은행 국민베스트기업 선정
- 2011. 11 경산 제3공장 준공
- 2012. 03 관 이름매 디자인등록(등록 제30-0637159호)
- 2012. 05 벤트밸브 일체형 밸브체 특허등록 (특허제10-1144017호)
- 2012. 06 접촉 면압 조절형 밸브 특허등록 (특허제10-1156108호)
- 2012. 06 위생안전(KC)인증서 획득 볼밸브(KSB 2038) 외 8건
- 2012. 06 ISO 14001:2004[TUV104-01-2216] 인증서 획득
- 2013. 03 경산진량공단제3공장중축
- 2013. 05 대한민국가스안전대상 동탑산업훈장수훈
- 2014. 07 기술혁신형 중소기업(INNOBIZ) 인증
- 2014. 12 스테인리스 강제 용접식 플랜지(KS B 1506)인증서 획득

HWA SUNG, The leading Valve manufacturer



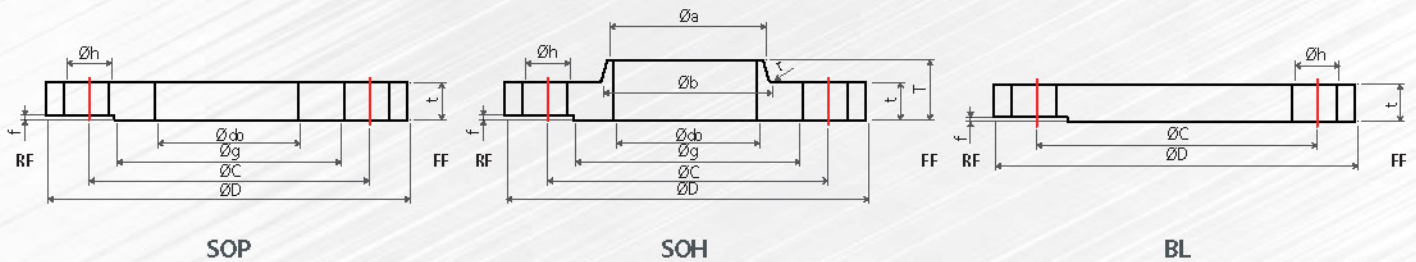
HS FLANGE

5K KS B1506-2013 / JIS B 2220

SLIP ON (PLATE) FLANGE 10 ~1500

SPLIP ON (HUB) FLANGE 450 ~1500

BLIND FLANGE 10 ~1500



Unit : mm

Nominal Dia. of Flange	Outside Dia. of Steel Pipe	Inside Dia. of Flange do	Outside Dia. of Flange D	Sectional Dimensions of Flange							Bolt Hole			Nominal Bolt Size	Approx. Weight (kg)		
				t	T	Dia. of Hub		r	Dia. of Face f	Dia. of Raised Face g	Bolt Circle Dia	Num- ber of Bolt Holes	Hole Dia h				
						a	b								SOP	BL	SOH
10	17.3	17.8	75	9	·	·	·	·	1	39	55	4	12	M10	0.26	0.28	·
15	21.7	22.2	80	9	·	·	·	·	1	44	60	4	12	M10	0.3	0.32	·
20	27.2	27.7	85	10	·	·	·	·	1	49	65	4	12	M10	0.36	0.41	·
25	34	34.5	95	10	·	·	·	·	1	59	75	4	12	M10	0.45	0.52	·
32	42.7	43.2	115	12	·	·	·	·	2	70	90	4	15	M12	0.77	0.91	·
40	48.6	49.1	120	12	·	·	·	·	2	75	95	4	15	M12	0.82	1.00	·
50	60.5	61.1	130	14	·	·	·	·	2	85	105	4	15	M12	1.06	1.38	·
65	76.3	77.1	155	14	·	·	·	·	2	110	130	4	15	M12	1.48	2.00	·
80	89.1	90	180	14	·	·	·	·	2	121	145	4	19	M16	1.97	2.67	·
(90)	101.6	102.6	190	14	·	·	·	·	2	131	155	4	19	M16	2.08	2.99	·
100	114.3	115.4	200	16	·	·	·	·	2	141	165	8	19	M16	2.35	3.66	·
125	139.8	141.2	235	16	·	·	·	·	2	176	200	8	19	M16	3.2	5.16	·
150	165.2	166.6	265	18	·	·	·	·	2	206	230	8	19	M16	4.39	7.47	·
(175)	190.7	192.1	300	18	·	·	·	·	2	232	260	8	23	M20	5.42	9.52	·
200	216.3	218	320	20	·	·	·	·	2	252	280	8	23	M20	6.24	12.1	·
(225)	241.8	243.7	345	20	·	·	·	·	2	277	305	12	23	M20	6.57	13.9	·
250	267.4	269.5	385	22	·	·	·	·	2	317	345	12	23	M20	9.39	19.2	·
300	318.5	321	430	22	·	·	·	·	3	360	390	12	23	M20	10.2	24.2	·
350	355.6	358.1	480	24	·	·	·	·	3	403	435	12	25	M22	14	33.0	·
400	406.4	409	540	24	·	·	·	·	3	463	495	16	25	M22	16.9	41.7	·
450	457.2	460	605	24	40	495	500	5	3	523	555	16	25	M22	21.4	52.7	24.9
500	508	511	655	24	40	546	552	5	3	573	605	20	25	M22	23	61.6	27
(550)	558.8	562	720	26	42	597	603	5	3	630	665	20	27	M24	30.1	80.8	34.5
600	609.6	613	770	26	44	648	654	5	3	680	715	20	27	M24	32.5	92.7	37.8
(650)	660.4	664	825	26(28)	48	702	708	5	3	735	770	24	27	M24	35.6	106(114)	43.2
700	711.2	715	875	26(30)	48	751	758	5	3	785	820	24	27	M24	38	120(138)	45.8
(750)	762	766	945	28(32)	52	802	810	5	3	840	880	24	33	M30	48.4	150(171)	57.7
800	812.8	817	995	28(34)	52	854	862	5	3	890	930	24	33	M30	51.2	(202)	61.3
(850)	863.6	868	1045	28(36)	54	904	912	5	3	940	980	24	33	M30	53.9	(237)	65.3
900	914.4	919	1095	30(36)	56	956	964	5	3	990	1030	24	33	M30	60.7	(260)	73.1
1000	1016	1021	1195	32(40)	60	1058	1066	5	3	1090	1130	28	33	M30	70.1	(345)	84.8
1100	1117.6	1122	1305	32(44)	71	1158	1170	7	3	1200	1240	28	33	M30	81.6	(454)	105
1200	1219.2	1224	1420	34(48)	77	1260	1272	7	3	1305	1350	32	33	M30	101	(586)	129
1350	1371.6	1376	1575	34(54)	80	1414	1426	7	3	1460	1505	32	33	M30	116	(814)	151
1500	1524	1529	1730	36(58)	86	1568	1580	7	3	1615	1660	36	33	M30	137	(1060)	180

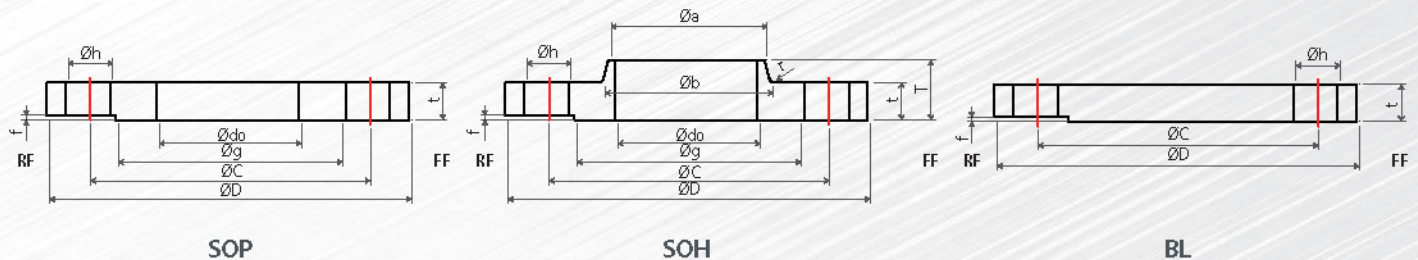
- (·)를 붙인 호칭지름은 가능한 사용하지 않는다. 2. 플랜지의 가스켓 자리는 KS B 1519에 따른다.
- 볼트 및 너트의 재료와 모양에 대해서는 KS B 1511의 부속서 B를 참조한다. 4. 중량 : KS D 3605에 따른다.

10K KSB1506-2013 / JIS B 2220

SLIP ON (PLATE) FLANGE 10 ~ 1500

SPLIP ON (HUB) FLANGE 250 ~ 1500

BLIND FLANGE 10 ~ 1500



SOP

SOH

BL

Unit: mm

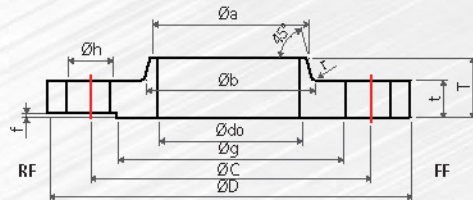
Nominal Dia.of Flange	Outside Dia.of Steel Pipe	Inside Dia.of Flange do	Outside Dia.of Flange D	Sectional Dimensions of Flange							Bolt Hole			Nominal Bolt Size	Approx. Weight (kg)		
				t	T	Dia.of Hub		r	Dia. of Face f	Dia. of Raised Face g	Bolt Circle Dia	Num- ber of Bolt Holes	Hole Dia h				
						a	b										
10	17.3	17.8	90	12	·	·	·	·	1	46	65	4	15	M12	0.51	0.53	·
15	21.7	22.2	95	12	·	·	·	·	1	51	70	4	15	M12	0.56	0.60	·
20	27.2	27.7	100	14	·	·	·	·	1	56	75	4	15	M12	0.72	0.79	·
25	34.0	34.5	125	14	·	·	·	·	1	67	90	4	19	M16	1.12	1.22	·
32	42.7	43.2	135	16	·	·	·	·	2	76	100	4	19	M16	1.47	1.66	·
40	48.6	49.1	140	16	·	·	·	·	2	81	105	4	19	M16	1.55	1.79	·
50	60.5	61.1	155	16	·	·	·	·	2	96	120	4	19	M16	1.86	2.23	·
65	76.3	77.1	175	18	·	·	·	·	2	116	140	4	19	M16	2.58	3.24	·
80	89.1	90.0	185	18	·	·	·	·	2	126	150	8	19	M16	2.58	3.48	·
(90)	101.6	102.6	195	18	·	·	·	·	2	136	160	8	19	M16	2.73	3.90	·
100	114.3	115.4	210	18	·	·	·	·	2	151	175	8	19	M16	3.1	4.57	·
125	139.8	141.2	250	20	·	·	·	·	2	182	210	8	23	M20	4.73	7.18	·
150	165.2	166.6	280	22	·	·	·	·	2	212	240	8	23	M20	6.3	10.1	·
(175)	190.7	192.1	305	22	·	·	·	·	2	237	265	12	23	M20	6.75	11.8	·
200	216.3	218.0	330	22	·	·	·	·	2	262	290	12	23	M20	7.46	13.9	·
(225)	241.8	243.7	350	22	·	·	·	·	2	282	310	12	23	M20	7.7	15.8	·
250	267.4	269.5	400	24	36	288	292	6	2	324	355	12	25	M22	11.8	22.6	12.7
300	318.5	321.0	445	24	38	340	346	6	3	368	400	16	25	M22	12.6	27.8	13.8
350	355.6	358.1	490	26	42	380	386	6	3	413	445	16	25	M22	16.3	36.9	18.2
400	406.4	409.0	560	28	44	436	442	6	3	475	510	16	27	M24	23.2	52.1	25.8
450	457.2	460.0	620	30	48	496	502	6	3	530	565	20	27	M24	29.3	68.4	33.4
500	508.0	511.0	675	30	48	548	554	6	3	585	620	20	27	M24	33.3	81.6	38
(550)	558.8	562.0	745	32(34)	52	604	610	6	3	640	680	20	33	M30	42.9	105(112)	49.4
600	609.6	613.0	795	32(36)	52	656	662	6	3	690	730	24	33	M30	45.4	120(134)	52.6
(650)	660.4	664.0	845	34(38)	56	706	712	6	3	740	780	24	33	M30	51.8	144(161)	60.2
700	711.2	715.0	905	34(40)	58	762	770	6	3	800	840	24	33	M30	59	176(196)	70.2
(750)	762.0	766.0	970	36(44)	62	816	824	6	3	855	900	24	33	M30	72.8	214(248)	86.5
800	812.8	817.0	1020	36(46)	64	868	876	6	3	905	950	28	33	M30	76	249(286)	92
(850)	863.6	868.0	1070	36(48)	66	920	928	6	3	955	1000	28	33	M30	80.1	(330)	98.7
900	914.4	919.0	1120	38(50)	70	971	979	6	3	1005	1050	28	33	M30	88.9	(377)	110
1000	1016.0	1021.0	1235	40(56)	74	1073	1081	6	3	1110	1160	28	39	M36	109	(512)	133
1100	1117.6	1122.0	1345	42(62)	95	1175	1185	8	3	1220	1270	28	39	M36	131	(675)	175
1200	1219.2	1224.0	1465	44(66)	101	1278	1290	8	3	1325	1380	32	39	M36	163	(854)	215
1350	1371.6	1376.0	1630	48(74)	110	1432	1450	8	3	1480	1540	36	45	M42	204	(1180)	274
1500	1524.0	1529.0	1795	50(82)	123	1585	1605	8	3	1635	1700	40	45	M42	248	(1590)	340

- ()를 붙인 호칭지름은 가능한 사용하지 않는다. 2. 플랜지의 가스켓 자리는 KS B 1519에 따른다
- 볼트 및 너트의 재료와 모양에 대해서는 KS B 1511의 부속서 B를 참조한다. 4. 중량 : KS D 3695에 따른다.

HS FLANGE

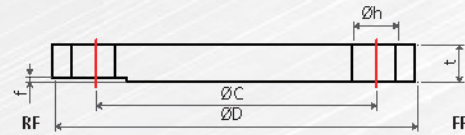
16K KS B1506-2013 / JIS B 2220

SPLIT-ON (HUB) FLANGE



SOH

BLIND FLANGE 10 ~ 600



BL

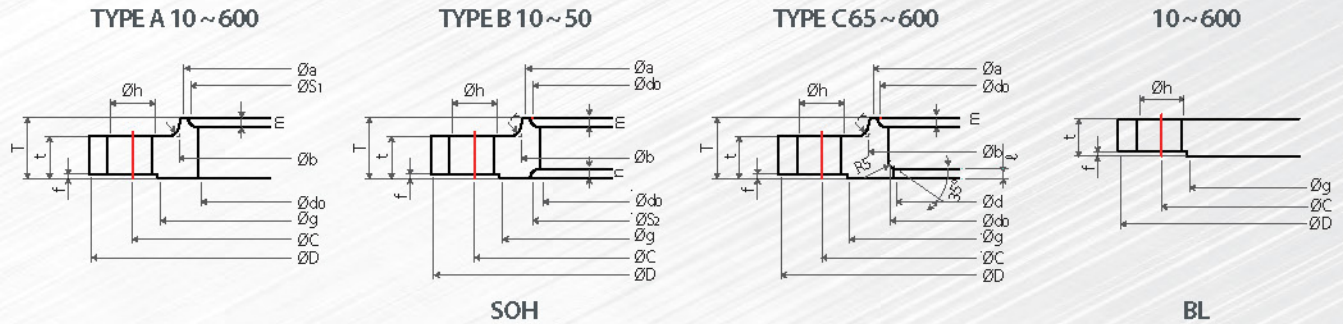
Unit : mm

Nominal Dia.of Flange	Outside Dia.of Steel Pipe	Inside Dia.of Flange d	Outside Dia.of Flange d	Sectional Dimensionsof Flange							BoltHole			Nominal Bolt Size	Approx.Weight (kg)	
				t	T	Dia.of Hub		r	f	g	Bolt Circle dia. CDia	Num- ber of Bolt Holes	Hole Dia h		BL	SOH
						a	b									
10	17.3	17.8	90	12	16	26	28	4	1	46	65	4	15	M12	0.53	0.52
15	21.7	22.2	95	12	16	30	32	4	1	51	70	4	15	M12	0.60	0.58
20	27.2	27.7	100	14	20	38	42	4	1	56	75	4	15	M12	0.79	0.75
25	34.0	34.5	125	14	20	46	50	4	1	67	90	4	19	M16	1.22	1.16
32	42.7	43.2	135	16	22	56	60	5	2	76	100	4	19	M16	1.66	1.53
40	48.6	49.1	140	16	24	62	66	5	2	81	105	4	19	M16	1.79	1.64
50	60.5	61.1	155	16	24	76	80	5	2	96	120	8	19	M16	2.09	1.83
65	76.3	77.1	175	18	26	94	98	5	2	116	140	8	19	M16	3.08	2.58
80	89.1	90.0	200	20	28	108	112	6	2	132	160	8	23	M20	4.41	3.61
(90)	101.6	102.6	210	20	30	120	124	6	2	145	170	8	23	M20	4.92	3.89
100	114.3	115.4	225	22	34	134	138	6	2	160	185	8	23	M20	6.29	4.87
125	139.8	141.2	270	22	34	164	170	6	2	195	225	8	25	M22	9.21	7.09
150	165.2	166.6	305	24	38	196	202	6	2	230	260	12	25	M22	12.7	9.57
200	216.3	218.0	350	26	40	244	252	6	2	275	305	12	25	M22	18.4	12.0
250	267.4	269.5	430	28	44	304	312	6	2	345	380	12	27	M24	30.4	20.1
300	318.5	321.0	480	30	48	354	364	8	3	395	430	16	27	M24	40.5	24.3
350	355.6	358.1	540	34	52	398	408	8	3	440	480	16	33	M30×3	57.5	34.4
400	406.4	409.0	605	38	60	446	456	10	3	495	540	16	33	M30×3	81.7	47.4
450	457.2	460.0	675	40	64	504	514	10	3	560	605	20	33	M30×3	107	61.8
500	508.0	511.0	730	42	68	558	568	10	3	615	660	20	33	M30×3	132	73.7
(550)	558.8	562.0	795	44	70	612	622	10	3	670	720	20	39	M36×3	163	87.9
600	609.6	613.0	845	46	74	666	676	10	3	720	770	24	39	M36×3	192	98.4
*650	660.4	664.0	895	48	77	704	726	10	5	770	820	24	39	M36×3	-	-
*700	711.2	715.0	960	50	80	754	776	10	5	820	875	24	42	M39×3	-	-
*750	762.0	766.0	1020	52	83	806	832	10	5	880	935	24	42	M39×3	-	-
*800	812.8	817.0	1085	54	86	865	885	10	5	930	990	24	48	M45×3	-	-
*850	863.6	868.0	1135	56	89	916	936	10	5	980	1040	24	48	M45×3	-	-
*900	914.4	919.0	1185	58	93	968	986	10	5	1030	1090	28	48	M45×3	-	-
*1000	1016.0	1021.0	1320	62	99	1070	1098	12	5	1140	1210	28	56	M52×3	-	-
*1100	1117.6	1123.0	1420	66	105	1180	1200	12	15	1240	1310	32	56	M52×3	-	-
*1200	1219.2	1225.0	1530	70	112	1282	1302	12	5	1350	1420	32	56	M52×3	-	-
*1300	1320.8	1326.0	1645	74	-	-	-	-	5	1450	1530	32	62	M56×3	-	-
*1350	1371.6	1377.0	1700	76	-	-	-	-	5	1510	1590	32	62	M56×3	-	-
*1400	1422.4	1428.0	1755	78	-	-	-	-	5	1560	1640	36	62	M56×3	-	-
*1500	1524.0	1529.0	1865	80	-	-	-	-	5	1670	1750	36	62	M56×3	-	-

- ()를 붙인 호칭지름은 가능한 사용하지 않는다. 2. 플랜지의 가스켓 자리는 KS B 1519에 따른다
- 볼트 및 너트의 재료와 모양에 대해서는 KS B 1511의 부속서 B 참조한다. 4. 중량 : KS D 3695에 따른다.

SLIP ON (HUB) FLANGE

BLIND FLANGE



Unit : mm

Nominal Dia. of Flange	Outside Dia. of Steel Pipe	Inside Dia. of Flange do	Outside Dia. of Flange D	Sectional Dimensionsof Flange								BoltHole			Nominal Bolt Size	Reference					Approx. Weight (kg)		
				t	T	Dia. of Hub		r	f	g	d	Bolt Circle Dia. C	Number of Bolt Holes	Hole Dia. h		S ₁	m	S ₂	n	ℓ	SOH (A)	SOH (B,C)	BL
						a	b																
10	17.3	17.8	90	14	20	30	32	4	1	46	12.7	65	4	15	M12	27	4	27	4	-	0.58	0.58	0.59
15	21.7	22.2	95	14	20	34	36	4	1	51	16.1	70	4	15	M12	31	4	31	4	-	0.65	0.64	0.67
20	27.2	27.7	100	16	22	40	42	4	1	56	21.4	75	4	15	M12	37	4	37	4	-	0.81	0.80	0.86
25	34.0	34.5	125	16	24	48	50	4	1	67	27.2	90	4	19	M16	44	4	44	4.5	-	1.27	1.26	1.34
32	42.7	43.2	135	18	26	56	60	5	2	76	35.5	100	4	19	M16	52	4	53	5	-	1.58	1.57	1.73
40	48.6	49.1	140	18	26	62	66	5	2	81	41.2	105	4	19	M16	58	4	59	5.5	-	1.68	1.66	1.87
50	60.5	61.1	155	18	26	76	80	5	2	95	52.7	120	8	19	M16	70	4	72	5.5	-	1.89	1.86	2.20
65	76.3	77.1	175	20	30	100	104	5	2	116	65.9	140	8	19	M16	94	6	-	-	6	2.73	2.81	3.24
80	89.1	90.0	200	22	34	113	117	6	2	132	78.1	160	8	23	M20	107	6	-	-	6	3.85	3.95	4.63
(90)	101.6	102.6	210	24	36	126	130	6	2	145	90.2	170	8	23	M20	120	6	-	-	6	4.47	4.59	5.67
100	114.3	115.4	225	24	36	138	142	6	2	160	102.3	185	8	23	M20	132	6	-	-	6	5.03	5.18	6.61
125	139.8	141.2	270	26	40	166	172	6	2	195	126.6	225	8	25	M22	160	7	-	-	6	7.94	8.15	10.5
150	165.2	166.6	305	28	42	196	202	6	2	230	151.0	260	12	25	M22	186	8	-	-	6	10.4	10.7	14.4
200	216.3	218.0	350	30	46	244	252	6	2	275	199.9	305	12	25	M22	237	9	-	-	6	13.1	13.6	20.8
250	267.4	269.5	430	34	52	304	312	6	2	345	248.8	380	12	27	M24	290	10	-	-	6	23.1	23.8	36.2
300	318.5	321.0	480	36	56	354	364	8	3	395	297.9	430	16	27	M24	345	11	-	-	6	27.2	28.1	47.4
350	355.6	358.1	540	40	62	398	408	8	3	440	333.4	480	16	33	M30×3	384	12	-	-	6	38.4	39.5	66.1
400	406.4	409.0	605	46	70	446	456	10	3	495	381.0	540	16	33	M30×3	437	13	-	-	7	53.9	55.6	97.0
450	457.2	460.0	675	48	78	504	514	10	3	560	431.8	605	20	33	M30×3	490	15	-	-	7	71.0	72.9	126
500	508.0	511.0	730	50	84	558	568	10	3	615	482.6	660	20	33	M30×3	544	16	-	-	7	84.6	86.7	155
(550)	558.8	562.0	795	52	90	612	622	10	3	670	533.4	720	20	39	M36×3	595	16	-	-	7	102	104	190
600	609.6	613.0	845	54(56)	96	666	676	10	3	720	584.2	770	24	39	M36×3	646	18	-	-	7	115	117	223(231)
*650	660.4	664.0	945	60	-	-	-	-	5	790	-	850	24	48	M45×3			-	-	-	-	-	-
*700	711.2	715.0	995	64	-	-	-	-	5	840	-	900	24	48	M45×3			-	-	-	-	-	-
*750	762.0	766.0	1080	68	-	-	-	-	5	900	-	970	24	56	M52×3			-	-	-	-	-	-
*800	812.8	817.0	1140	72	-	-	-	-	5	960	-	1030	24	56	M52×3	-	-	-	-	-	-	-	
*850	863.6	868.0	1200	74	-	-	-	-	5	1020	-	1090	24	56	M52×3	-	-	-	-	-	-	-	
*900	914.4	919.0	1250	76	-	-	-	-	5	1070	-	1140	28	56	M52×3	-	-	-	-	-	-	-	

- ()를 붙인 호칭지름은 가능한 사용하지 않는다. 2. 플랜지의 가스켓 자리는 KSB 1519에 따른다. 3. 볼트 및 너트의 재료와 모양에 대해서는 KSB 1511의 참고 2 참조.
- d 치수는 KSD 3570 스케줄 40을 참고로 해서 표시함. 호칭 450 이상은 관의 안지름 두께 12.7mm로 함. 5. 중량 : KSD 3695에 따른다.

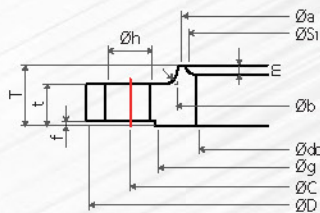
HS FLANGE

30K KSB1506-2013 / JIS B 2220

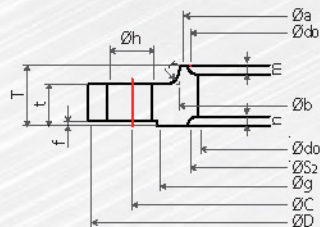
SLIP ON (HUB) FLANGE

BLIND FLANGE

TYPE A 10 ~ 400

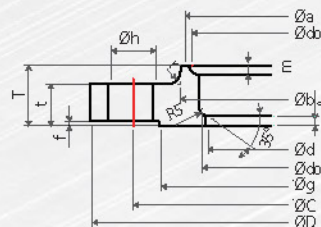


TYPE B 10 ~ 50

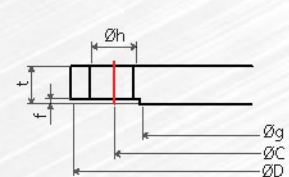


SOH

TYPE C 65 ~ 400



TYPE C 65 ~ 400



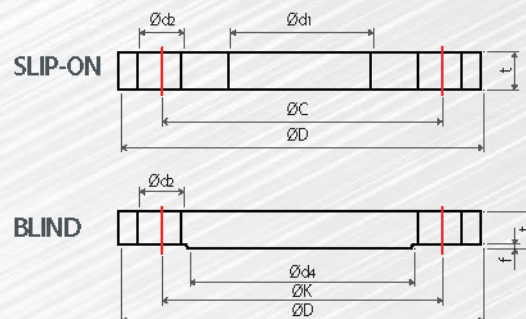
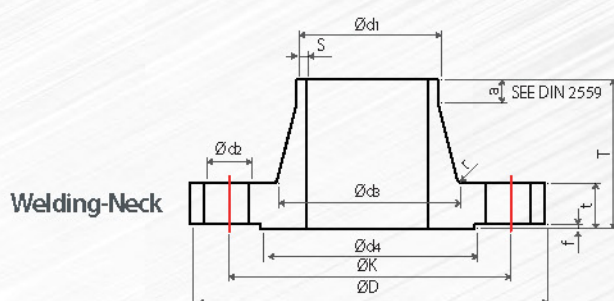
BL

Unit: mm

Nominal Dia. of Flange	Outside Dia. of Steel Pipe	Inside Dia. of Flange do	Outside Dia. of Flange D	Sectionel Dimensionsof Flange								BoltHole			Nominal Bolt Size	Reference					Approx. Weight (kg)		
				t	T	Dia. of Hub		r	f	g	d	Bolt Circle Dia. C	Number of Bolt Holes	Hole Dia. h		S ₁	m	S ₂	n	ℓ	SOH (A)	SOH (B,C)	BL
						a	b																
10	17.3	17.8	110	16	24	30	34	4	1	52	12.7	75	4	19	M16	27	4	27	4	-	1.00	1.00	1.00
15	21.7	22.2	115	18	26	36	40	5	1	55	16.1	80	4	19	M16	31	4	40	4	-	1.24	1.22	1.25
20	27.2	27.7	120	18	28	42	46	5	1		21.4	85	4	19		37	5	44	4	-	1.36	1.34	1.38
25	34.0	34.5	130	20	30	50	54	5	1	70	27.2	95	4	19	M16	44	6	52	5	-	1.77	1.75	1.84
32	42.7	43.2	140	22	32	60	64	6	2	80	35.5	105	4	19	M16	52	6	60	5	-	2.17	2.15	2.32
40	48.6	49.1	160	22	34	66	70	6	2		41.2	120	4	23		58	6	66	5	-	2.82	2.79	3.00
50	60.5	61.1	165	22	36	82	86	6	2	105	52.7	130	8	19	M16	70	6.5	78	5	-	2.89	2.86	3.14
65	76.3	77.1	200	26	40	102	106	8	2	130	65.9	160	8	23	M20	96	9.5	-	-	6	4.88	4.96	5.50
80	89.1	90.0	210	28	44	115	121	8	2		78.1	170	8	23		109	9.5	-	-	6	5.70	5.80	6.63
(90)	101.6	102.6	230	30	46	128	134	8	2	150	90.2	185	8	25	M22	122	9.5	-	-	6	7.13	7.25	8.55
100	114.3	115.4	240	32	48	141	147	8	2	160	102.3	195	8	25	M22	135	9.5	-	-	6	8.01	8.16	10.0
125	139.8	141.2	275	36	54	166	172	8	2		126.6	230	8	25		160	9.5	-	-	6	11.6	11.9	15.3
150	165.2	166.6	325	38	58	196	204	8	2	235	151.0	275	12	27	M24	186	9.5	-	-	6	17.0	17.3	22.2
200	216.3	218.0	370	42	64	248	256	8	2	280	199.9	320	12	27	M24	237	9.5	-	-	6	22.2	22.6	32.6
250	267.4	269.5	450	48	72	306	314	10	2		248.8	390	12	33		290	10	-	-	6	36.8	37.5	55.2
300	318.5	321.0	515	52	78	360	370	10	3	405	297.9	450	16	33	M30x3	345	12	-	-	6	49.1	50.0	77.9
350	355.6	358.1	560	54	84	402	412	12	3	450	333.4	495	16	33	M30x3	383	13	-	-	6	60.4	61.5	96.9
400	406.4	409	630	60	92	456	468	15	3	510	381.0	560	16	33	M36x3	435	14	-	-	7	82.0	83.7	136

1. ()를 붙인 호칭지름은 가능한 사용하지 않는다. 2. 플랜지의 가스켓 자리는 KSB 1519에 따른다. 3. 볼트 및 너트의 재료와 모양에 대해서는 KSB 1511의 부속서 B를 참조한다.
4. d 치수는 KSD 3562, 3564, 및 KSD 3570 스케줄 40을 참고로 해서 표시한 것이다. 호칭 지름 450 이상인 것은 관의 안지름 두께를 12.7 mm로 하였다. 5. 중량: KSD 3605에 따른다.

6 BAR DIN 2633 WELDING NECK FLANGE DIN 2573 SLIP ON FLANGE DIN 2527 BLIND FLANGE

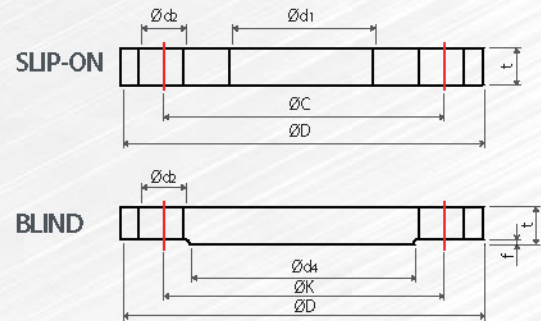
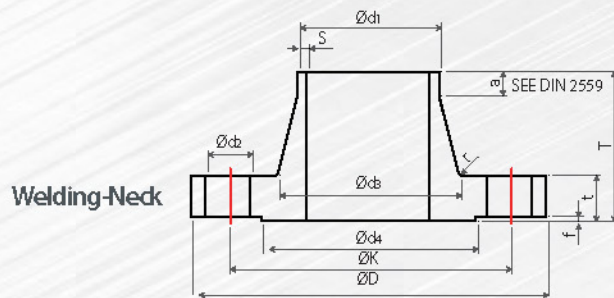


Unit : mm

Bore		Common Dimension						Hub				Raised		Drilling		d ₂	Approx Weight(kg)		
Nominal Bore	d ₁	D	t			k	T	d ₃	s	r	a	d ₄	f	Num-ber of Bolt	Dia.of Bolt		DIN 2576	DIN 2632	
			Welding Neck	Slip-on	Blind														
10	14 17.2 ^{*)}	75	12	12	12	50	28	22 26	1.8	4	6	35	2	4	M10	-	11.5	0.325	0.325
15	20 21.3 ^{*)}	80	12	12	12	55	30	28 30	2.0	4	6	40	2	4	M10	-	11.5	0.392	0.392
20	25 26.9 ^{*)}	90	14	14	14	65	32	35 38	2.3	4	6	50	2	4	M10	-	11.5	0.592	0.592
25	30 33.7 ^{*)}	100	14	14	14	75	35	40 42	2.6	4	6	60	2	4	M10	-	11.5	0.747	0.747
32	38 42.4 ^{*)}	120	14	16	14	90	35	50 55	2.6	6	6	70	2	4	M12	(1/2 ^{*)}	14	1.05	1.05
40	44.5 48.3 ^{*)}	130	14	16	14	100	38	58 62	2.6	6	7	80	3	4	M12	(1/2 ^{*)}	14	1.18	1.18
50	57 60.3 ^{*)}	140	14	16	14	110	38	70 74	2.9	6	8	90	3	4	M12	(1/2 ^{*)}	14	1.34	1.34
65	76.1 ^{*)}	160	14	16	14	130	38	88	2.9	6	9	110	3	4	M12	(1/2 ^{*)}	14	1.67	1.67
80	88.9 ^{*)}	190	16	18	16	150	42	102	3.2	8	10	128	3	4	M16	(5/8 ^{*)}	18	2.71	2.71
100	108 114.3 ^{*)}	210	16	18	16	170	45	122 130	3.6	8	10	148	3	4	M16	(5/8 ^{*)}	18	3.24	3.24
125	133 139.7 ^{*)}	240	18	20	18	200	48	148 155	4.0	8	10	178	3	8	M16	(5/8 ^{*)}	18	4.49	4.49
150	159 168.3 ^{*)}	265	18	20	18	225	48	172 184	4.5	10	12	202	3	8	M16	(5/8 ^{*)}	18	5.15	5.15
200	216 219.1 ^{*)}	320	20	22	20	280	55	230 236	5.9	10	15	258	3	8	M16	(5/8 ^{*)}	18	7.78	7.78
250	267.273 ^{*)}	375	22	24	22	335	60	282 290	6.2	12	15	312	3	12	M16	(5/8 ^{*)}	18	10.8	10.8
300	318 323.9 ^{*)}	440	22	24	22	395	2	335 342	7.1	12	15	365	4	12	M20	3/4 ^{*)}	23	14.0	14.0
350	368 355.6 ^{*)}	490	22	26	22	445	62	385	7.1	12	15	415	4	12	M20	(3/4 ^{*)}	23	16.1	16.1
400	419 406.4 ^{*)}	540	22	28	22	495	65	438	7.1	12	15	455	4	16	M20	(3/4 ^{*)}	23	18.3	18.3
500	521 508 ^{*)}	645	24	30	24	600	68	538	7.1	12	15	570	4	20	M20	(3/4 ^{*)}	23	24.6	24.6
600	622 609.6 ^{*)}	755	24	-	-	705	70	640	7.1	12	16	670	5	20	M24	(7/8 ^{*)}	27	-	-
700	720 711.2 ^{*)}	860	24	-	-	810	70	740	7.1	12	16	775	5	24	M24	(7/8 ^{*)}	27	-	-
800	820 812.8 ^{*)}	975	24	-	-	920	70	842	7.1	12	16	880	5	24	M27	(1 ^{*)}	30	-	-
900	920 914.4 ^{*)}	1075	26	-	-	1020	70	942	7.1	12	16	980	5	24	M27	(1 ^{*)}	30	-	-
1000	1020 1016 ^{*)}	1175	26	-	-	1120	70	1045	7.1	16	16	1080	5	28	M27	(1 ^{*)}	30	-	-

HS FLANGE

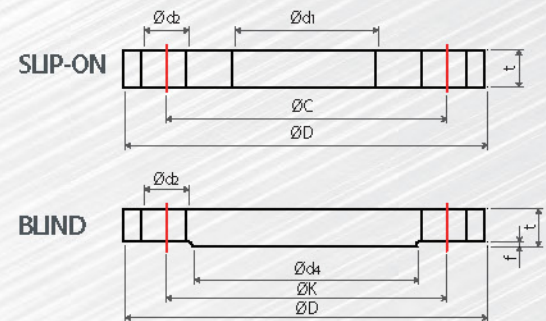
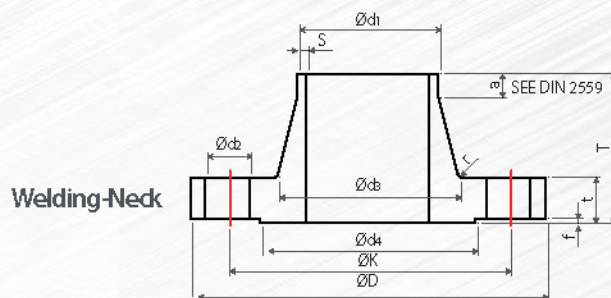
10 BAR DIN 2633 WELDING NECK FLANGE DIN 2573 SLIP ON FLANGE DIN 2527 BLIND FLANGE



Unit: mm

Bore		Common Dimension						Hub				Raised		Drilling		d ₂	Approx Weight(kg)		
Nominal Bore	d ₁	D	t			k	T	d ₃	s	r	a	d ₄	f	Num-ber of Bolt	Dia.of Bolt		DIN 2576	DIN 2632	
			Welding Neck	Slip-on	Blind														
10	14 17.2*)	90	14	14	14	60	35	25 28	1.8	4	6	40	2	4	M12	(1/2")	14	0.163	0.580
15	20 21.3*)	95	14	14	14	65	35	30 32	2.0	4	6	45	2	4	M12	(1/2")	14	0.675	0.648
20	25 26.9*)	105	16	16	16	75	38	38 40	2.3	4	6	58	2	4	M12	(1/2")	14	0.947	0.952
25	30 33.7*)	115	16	16	16	85	38	42 45	2.6	4	6	68	2	4	M12	(1/2")	14	1.14	1.14
32	38 42.4*)	140	16	16	16	100	40	52 56	2.6	6	6	78	2	4	M16	(5/8")	18	1.66	1.69
40	44.5 48.3*)	150	16	16	16	110	42	60 64	2.6	6	7	88	3	4	M16	(5/8")	18	1.89	1.86
50	57 60.3*)	165	18	18	18	125	45	72 75	2.9	6	8	102	3	4	M16	(5/8")	18	2.51	2.53
65	76.1*)	185	18	18	18	145	45	90	2.9	6	10	122	3	4	M16	(5/8")	18	3.00	3.06
80	88.9*)	200	20	20	20	160	50	105	3.2	8	10	138	3	4	M16	(5/8")	18	3.79	3.70
100	108 114.3*)	220	20	20	20	180	52	125 131	3.6	8	12	158	3	8	M16	(5/8")	18	4.20	4.62
125	133 139.7*)	250	22	22	22	210	55	150 156	4.0	8	12	188	3	8	M16	(5/8")	18	5.71	6.30
150	159 168.3*)	285	22	22	22	240	55	175 184	4.5	10	12	212	3	8	M20	(3/4")	23	6.72	7.75
200	216 219.1*)	340	24	24	24	295	62	232 235	5.9	10	16	268	3	8	M20	(3/4")	23	9.50	11.3
250	267 273*)	395	26	26	26	350	68	285 292	6.3	12	16	320	3	12	M20	(3/4")	23	12.5	14.7
300	318 323.9*)	445	26	26	28	400	68	335 344	7.1	12	16	370	4	12	M20	(3/4")	23	14.4	17.6
350	368 355.6*)	505	26	28	30	460	68	385	7.1	12	16	430	4	16	M20	(3/4")	23	20.6	21.4
400	419 406.4*)	565	26	32	32	515	72	440	7.1	12	16	482	4	16	M24	(7/8")	27	27.9	26.1
500	521 508*)	670	28	38	34	620	75	542	7.1	12	16	585	4	20	M24	(7/8")	27	41.1	34.7
600	622 609.6*)	780	28	-	-	725	80	642	7.1	12	18	685	5	20	M27	(1")	30	-	-
700	720 711.2*)	895	30	-	-	840	80	745	8.0	12	18	800	5	24	M27	(1")	30	-	-
800	820 812.8*)	1015	32	-	-	950	90	850	8.0	12	18	905	5	24	M30	(11/8")	33	-	-
900	920 914.4*)	1115	34	-	-	1050	95	950	10.0	12	20	1005	5	28	M30	(11/8")	33	-	-
1000	1020 1016*)	1230	34	-	-	1160	95	1052	10.0	16	20	1110	5	28	M33	(11/4")	36	-	-

16 BAR DIN 2633 WELDING NECK FLANGE DIN 2573 SLIP ON FLANGE DIN 2527 BLIND FLANGE

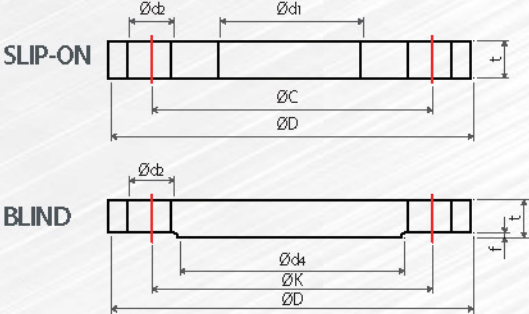
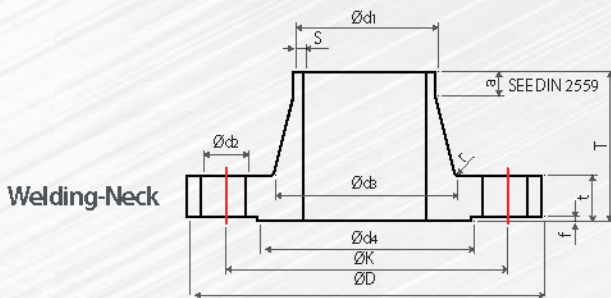


Unit : mm

Bore		Common Dimension						Hub				Raised		Drilling		d ₂	Approx Weight(kg)		
Nominal Bore	d ₁	D	t			k	T	d ₃	s	r	a	d ₄	f	Num-ber of Bolt	Dia.of Bolt		DIN 2576	DIN 2632	
			Welding Neck	Slip-on	Blind														
10	14 17.2*)	90	14	14	14	60	35	25 28	1.8	4	6	40	2	4	M12	(1/2")	14	0.63	0.580
15	20 21.3*)	95	14	14	14	65	35	30 32	2.0	4	6	45	2	4	M12	(1/2")	14	0.72	0.648
20	25 26.9*)	105	16	16	16	75	38	38 40	2.3	4	6	58	2	4	M12	(1/2")	14	1.01	0.952
25	30 33.7*)	115	16	16	16	85	38	42 45	2.6	4	6	68	2	4	M12	(1/2")	14	1.23	1.14
32	38 42.4*)	140	16	16	16	100	40	52 56	2.6	6	6	78	2	4	M16	(5/8")	18	1.80	1.69
40	44.5 48.3*)	150	16	16	16	110	42	60 64	2.6	6	7	88	3	4	M16	(5/8")	18	2.09	1.86
50	57 60.3*)	165	18	18	18	125	45	72 75	2.9	6	8	102	3	4	M16	(5/8")	18	2.88	2.53
65	76.1*)	185	18	18	18	145	45	90	2.9	6	10	122	3	4	M16	(5/8")	18	3.66	3.06
80	88.9*)	200	20	20	20	160	50	105	2.2	8	10	138	3	8	M16	(5/8")	18	4.77	3.70
100	108 114.3*)	220	20	20	20	180	52	125 131	3.6	8	12	158	3	8	M16	(5/8")	18	5.65	4.62
125	133 139.7*)	250	22	22	22	210	55	150 156	4.0	8	12	188	3	8	M16	(5/8")	18	8.42	6.30
150	159 168.3*)	285	22	22	22	240	55	175 184	4.5	10	12	212	3	8	M20	(3/4")	23	10.4	7.75
200	216 219.1*)	340	24	24	24	295	62	232 235	5.9	10	16	268	3	12	M20	(3/4")	23	16.1	11.0
250	267 273*)	405	26	26	26	355	70	285 292	6.3	12	16	320	3	12	M24	(7/8")	27	24.9	15.6
300	318 323.9*)	460	28	28	28	410	78	338 344	7.1	12	16	378	4	12	M24	(7/8")	27	35.1	22.0
350	368 355.6*)	520	30	30	30	470	82	390	8.0	12	16	438	4	16	M24	(7/8")	27	47.8	28.7
400	419 406.4*)	580	32	32	32	525	85	445	8.0	12	16	490	4	16	M27	(1")	30	63.5	36.3
500	521.508*)	715	34	36	34	650	90	548	8.0	12	16	610	4	20	M30	(11/8")	33	102.0	59.3
600	622 609.6*)	840	36	40	-	770	95	652	8.8	12	18	725	5	20	M33	(11/4")	36	-	-
700	720 711.2*)	910	36	-	-	840	100	755	8.8	12	18	795	5	24	M33	(11/4")	36	-	-
800	820 812.8*)	1025	38	-	-	950	105	855	10.0	12	20	900	5	24	M36	(13/8")	39	-	-
900	920 914.4*)	1125	40	-	-	1050	110	955	10.0	12	20	1000	5	28	M36	(13/8")	39	-	-
1000	1020 1016*)	1255	42	-	-	1170	120	1058	10.0	16	20	1115	5	28	M39	(11/2")	42	-	-

HS FLANGE

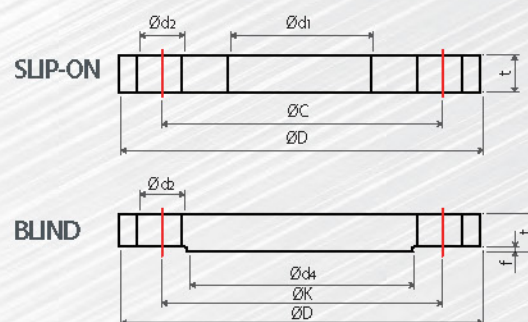
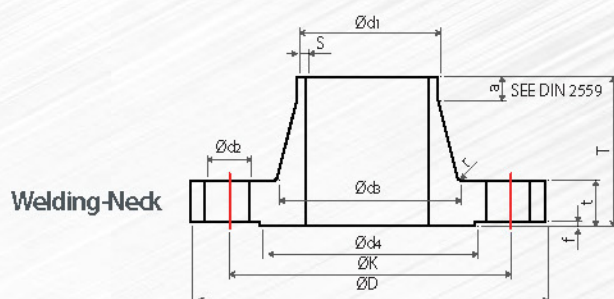
○ 25 BAR DIN 2633 WELDING NECK FLANGE DIN 2573 SLIP ON FLANGE DIN 2527 BLIND FLANGE



Unit:mm

Bore		Common Dimension						Hub				Raised		Drilling		d ₂	Approx Weight(kg)		
Nominal Bore	d ₁	D	t			k	T	d ₃	s	r	a	d ₄	f	Num-ber of Bolt	Dia.of Bolt		DIN 2576	DIN 2632	
			Welding Neck	Slip-on	Blind														
10	14 17.2*)	90	16	16	16	60	35	25 28	1.8	4	6	40	2	4	M12	(1/2")	14	0.72	0.661
15	20 21.3*)	95	16	16	16	65	38	30 32	2.0	4	6	45	2	4	M12	(1/2")	14	0.81	0.746
20	25 26.9*)	105	18	18	18	75	40	38 40	2.3	4	6	58	2	4	M12	(1/2")	14	1.24	1.06
25	30 33.7*)	115	18	18	18	85	40	42 46	2.6	4	6	68	2	4	M12	(1/2")	14	1.38	1.29
32	38 42.4*)	140	18	18	18	100	42	52 56	2.6	6	6	78	2	4	M16	(5/8")	18	2.03	1.88
40	44.5 48.3*)	150	18	18	18	110	45	60 64	2.6	6	7	88	3	4	M16	(5/8")	18	2.35	2.34
50	57 60.3*)	165	20	20	20	125	48	72 75	2.9	6	8	102	3	4	M16	(5/8")	18	3.20	2.82
65	76.1*)	185	22	22	22	145	52	90	2.9	6	10	122	3	8	M16	(5/8")	18	4.29	3.74
80	88.9*)	200	24	24	24	160	58	105	3.2	8	12	138	3	8	M16	(5/8")	18	5.88	4.75
100	108 114.3*)	235	24	24	24	190	65	128 134	3.6	8	12	162	3	8	M20	(3/4")	23	7.54	6.52
125	133 139.7*)	270	26	26	26	220	68	155 162	4.0	8	12	188	3	8	M24	(7/8")	27	10.8	9.07
150	159 168.3*)	300	28	28	28	250	75	182 192	4.5	10	12	218	3	8	M24	(7/8")	27	14.5	11.8
200	216 219.1*)	360	30	30	30	310	80	240 244	6.3	10	16	278	3	12	M24	7/8")	27	22.3	17.0
250	267 273*)	425	32	32	32	370	88	292 298	7.1	12	18	335	3	12	M27	(1")	30	33.5	24.4
300	318 323.9*)	485	34	34	34	430	92	345 352	8.0	12	18	395	4	16	M27	(1")	30	46.3	31.2
350	368 355.6*)	555	38	38	38	490	100	398	8.0	12	20	450	4	16	M30	(11/4")	33	68.0	45.0
400	419 406.4*)	620	40	40	40	550	110	452	8.8	12	20	505	4	16	M33	(11/4")	36	89.7	58.7
500	521 508*)	730	44	44	44	660	125	558	10.0	12	20	615	4	20	M33	(11/4")	36	138.0	86.1
600	622 609.6*)	845	46	-	-	770	125	660	11.0	12	20	720	5	20	M36	(13/8")	39	-	101.0
700	720 711.2*)	960	46	-	-	875	125	760	12.5	12	20	820	5	24	M39	(11/2")	42	-	134.0
800	820 812.8*)	1085	50	-	-	990	135	865	14.2	12	22	930	5	24	M45	(13/4")	48	-	183.0
900	920 914.4*)	1185	54	-	-	1090	145	968	16.0	12	24	1030	5	28	M45	(13/4")	48	-	232.0
1000	1020 1016*)	1320	58	-	-	1210	155	1070	17.5	16	24	1140	5	28	M52	(2")	56	-	302.0

40 BAR DIN 2633 WELDING NECK FLANGE DIN 2573 SLIP ON FLANGE DIN 2527 BLIND FLANGE

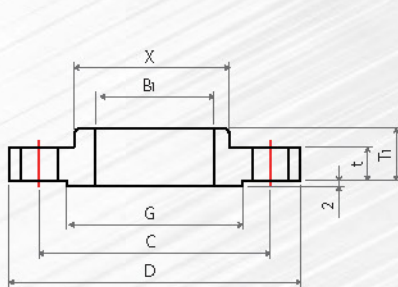


Unit : mm

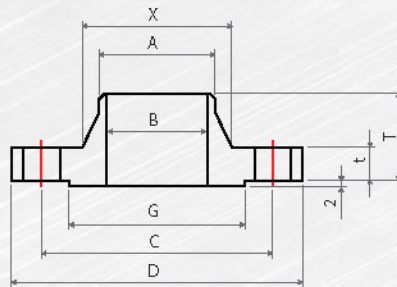
Bore		Common Dimension						Hub				Raised		Drilling		d ₂	Approx Weight(kg)		
Nominal Bore	d ₁	D	t			k	T	d ₃	s	r	a	d ₄	f	Num-ber of Bolt	Dia.of Bolt		DIN 2576	DIN 2632	
			Welding Neck	Slip-on	Blind														
10	14 17.2*)	90	16	16	16	60	35	25 28	1.8	4	6	40	2	4	M12	(1/2")	14	0.72	0.661
15	20 21.3*)	95	16	16	16	65	38	30 32	2.0	4	6	45	2	4	M12	(1/2")	14	0.81	0.746
20	25 26.9*)	105	18	18	18	75	40	38 40	2.3	4	6	58	2	4	M12	(1/2")	14	1.24	1.06
25	30 33.7*)	115	18	18	18	85	40	42 46	2.6	4	6	68	2	4	M12	(1/2")	14	1.38	1.29
32	38 42.4*)	140	18	18	18	100	42	52 56	2.6	6	6	78	2	4	M16	(5/8")	18	2.03	1.88
40	44.5 48.3*)	150	18	18	18	110	45	60 64	2.6	6	7	88	3	4	M16	(5/8")	18	2.35	2.33
50	57 60.3*)	165	20	20	20	125	48	72 75	2.9	6	8	102	3	4	M16	(5/8")	18	3.20	2.82
65	76.1*)	185	22	22	22	145	52	90	2.9	6	10	122	3	8	M16	(5/8")	18	4.29	3.74
80	88.9*)	200	24	24	24	160	58	105	3.2	8	12	138	3	8	M16	(5/8")	18	5.88	4.75
100	108 114.3*)	235	24	24	24	190	65	128 134	3.6	8	12	162	3	8	M20	(3/4")	23	7.54	6.52
125	133 139.7*)	270	26	26	26	220	68	155 162	4.0	8	12	188	3	8	M24	(7/8")	27	10.8	9.07
150	159 168.3*)	300	28	28	28	250	75	192	4.5	10	12	218	3	8	M24	(7/8")	27	14.5	11.80
(175)	191 193.7*)	350	32	32	32	295	82	215 218	5.6	10	15	260	3	12	M27	(1")	30	22.1	18.2
200	216 219.1*)	375	34	34	34	320	88	240 244	6.3	10	16	285	3	12	M27	(1")	30	27.2	21.5
250	267 273*)	450	38	38	38	385	105	306	7.1	12	18	345	3	12	M30	(11/8")	33	43.8	34.9
300	318 323.9*)	515	42	42	42	450	115	353 362	8.0	12	18	410	4	16	M30	(11/8")	33	63.3	49.7
350	368 355.6*)	580	46	46	46	510	125	408	8.8	12	20	465	4	16	M33	(11/4")	36	89.5	68.1
400	419 406.4*)	660	50	50	50	585	135	462	11.0	12	20	535	4	16	M36	(13/8")	39	127.0	96.5
500	521 508*)	755	52	52	52	670	140	562	14.2	12	20	615	4	20	M39	(11/2")	42	172.0	117.0

HS FLANGE

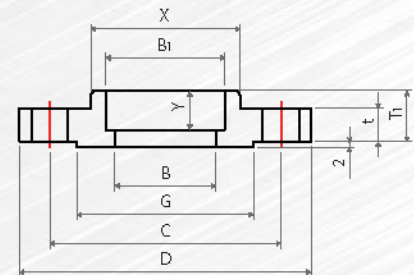
CLASS 150 & 300 ASME B16.5-2013



SPLIP-ON



WELDING NECK



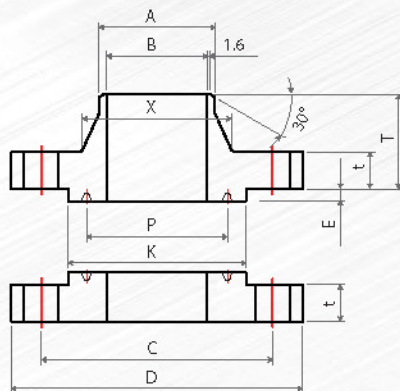
SOCKET WELDING

CLASS 150

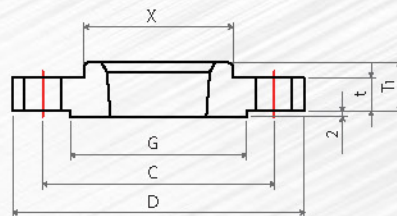
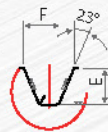
Nominal Pipe Size		Outside Dia. Of Flanges	Dia. of Bore										Dia. Of Hub at Bevel A		Dia. Of Hub at Base	Dia. Of Hub at Face	Thick of Flange	Radius of Fillet
			Slip-on Socket, B1		Lab-Joint B2		Welding-Neck, Socket B											
							JPI			ASME								
mm	in	D	JPI	ASME	JPI	ASME	SCH40	SCH80	SCH160	SCH40	SCH80	SCH160	JPI	ASME	X	G	t	R
15	1/2	90	22.2	22.2	23.4	22.9	16.1	14.3	12.3	15.8	13.9	11.8	21.7	21.3	30	34.9	11.2	3
20	3/4	100	27.7	27.7	28.9	28.2	21.4	19.4	16.2	20.9	18.8	15.6	27.2	26.7	38	42.9	12.7	3
25	1	110	34.5	34.5	35.6	34.9	27.2	25.0	21.2	26.6	24.3	20.7	34.0	33.4	49	50.8	14.3	3
(32)	1 1/4	115	43.2	43.2	44.3	43.7	35.5	32.9	29.9	35.1	32.5	29.5	42.7	42.2	59	63.5	15.9	5
40	1 1/2	125	49.1	49.5	50.4	50.0	41.2	38.4	34.4	40.9	38.1	34.0	48.6	48.3	65	73.0	17.5	6
50	2	150	61.1	61.9	62.7	62.5	52.7	49.5	43.1	52.5	49.3	42.9	60.5	60.3	78	92.1	19.1	8
65	2 1/2	180	77.1	74.6	78.7	75.4	65.9	62.3	57.3	62.5	59.0	54.0	76.3	73.0	90	104.8	22.3	8
80	3	190	90.0	90.7	91.6	91.4	78.1	73.9	66.9	78.0	73.5	66.5	89.1	88.9	108	127.0	23.9	10
(90)	3 1/2	215	102.6	103.4	104.1	104.1	90.2	85.4	76.2	90.0	85.5	-	101.6	101.6	122	139.7	23.9	10
100	4	230	115.4	116.1	116.9	116.8	102.3	97.1	87.3	102.0	97.0	87.5	114.3	114.3	135	157.2	23.9	11
125	5	255	141.2	143.8	143.0	144.4	126.6	120.8	108.0	128.0	122.0	109.5	139.8	141.3	164	185.7	23.9	11
150	6	280	166.6	170.7	168.4	171.4	151.0	143.2	128.8	154.0	146.5	132.0	165.2	168.3	192	215.9	25.4	13
200	8	345	218.0	221.5	219.5	222.2	199.9	190.9	170.3	203.0	193.5	173.0	216.3	219.1	246	269.9	28.6	13
250	10	405	269.5	276.2	271.7	277.4	248.8	237.2	210.2	254.5	243.0	216.0	267.4	273.0	305	323.8	30.2	13
300	12	485	321.0	327.0	322.8	328.2	297.9	283.7	251.9	303.0	289.0	257.0	318.5	323.8	365	381.0	31.8	13
350	14	535	358.1	359.2	-	360.2	333.4	317.6	284.2	333.5	317.5	284.0	355.6	355.6	400	412.8	35.0	13
400	16	595	409.0	410.5	-	411.2	381.0	363.6	325.4	381.0	363.5	325.5	406.4	406.4	457	469.9	36.6	13
450	18	635	460.0	461.8	-	462.3	428.6	409.6	366.8	428.5	409.5	366.5	457.2	457.0	505	533.4	39.7	13
500	20	700	511.0	513.1	-	514.4	477.8	455.6	408.0	478.0	455.5	408.0	508.0	508.0	559	584.2	42.9	13
600	24	815	613.0	616.0	-	616.0	574.6	547.8	490.6	574.5	547.5	490.5	609.6	610.0	663	692.2	47.7	13

CLASS 300

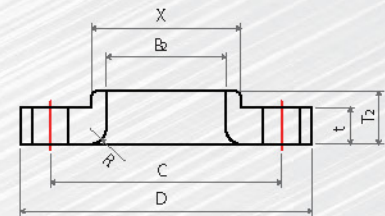
Nominal Pipe Size		Outside Dia. Of Flanges	Dia. of Bore										Dia. Of Hub at Bevel A		Dia. Of Hub at Base	Dia. Of Hub at Face	Thick of Flange	Radius of Fillet
			Slip-on Socket, B1		Lab-Joint B2		Welding-Neck, Socket B											
							JPI			ASME								
mm	in	D	JPI	ASME	JPI	ASME	SCH40	SCH80	SCH160	SCH40	SCH80	SCH160	JPI	ASME	X	G	t	R
15	1/2	95	22.2	22.2	23.4	22.9	16.1	14.3	12.3	15.8	13.9	11.8	21.7	21.3	38	34.9	14.3	3
20	3/4	115	27.7	27.7	28.9	28.2	21.4	19.4	16.2	20.9	18.8	15.6	27.2	26.7	48	42.9	15.9	3
25	1	125	34.5	34.5	35.6	34.9	27.2	25.0	21.2	26.6	24.3	20.7	34.0	33.4	54	50.8	17.5	3
(32)	1 1/4	135	43.2	43.2	44.3	43.7	35.5	32.9	29.9	35.1	32.5	29.5	42.7	42.2	64	63.5	19.1	5
40	1 1/2	155	49.1	49.5	50.4	50.0	41.2	38.4	34.4	40.9	38.1	34.0	48.6	48.3	70	73.0	20.7	6
50	2	165	61.1	61.9	62.7	62.5	52.7	49.5	43.1	52.5	49.3	42.9	60.5	60.3	84	92.1	22.3	8
65	2 1/2	190	77.1	74.6	78.7	75.4	65.9	62.3	57.3	62.5	59.0	54.0	76.3	73.0	100	104.8	25.4	8
80	3	210	90.0	90.7	91.6	91.4	78.1	73.9	66.9	78.0	73.5	66.5	89.1	88.9	117	127.0	28.6	10
(90)	3 1/2	230	102.6	103.4	104.1	104.1	90.2	85.4	76.2	90.0	85.5	-	101.6	101.6	133	139.7	30.2	10
100	4	255	115.4	116.1	116.9	116.8	102.3	97.1	87.3	102.0	97.0	87.5	114.3	114.3	146	157.2	31.8	11
125	5	280	141.2	143.8	143.0	144.4	126.6	120.8	108.0	128.0	122.0	109.5	139.8	141.3	178	185.7	35.0	11
150	6	320	166.6	170.7	168.4	171.4	151.0	143.2	128.8	154.0	146.5	132.0	165.2	168.3	206	215.9	36.6	13
200	8	380	218.0	221.5	219.5	222.2	199.9	190.9	170.3	203.0	193.5	173.0	216.3	219.1	260	269.9	41.3	13
250	10	445	269.5	276.2	271.7	277.4	248.8	237.2	210.2	254.5	243.0	216.0	267.4	273.0	321	323.8	47.7	13
300	12	520	321.0	327.0	322.8	328.2	297.9	283.7	251.9	303.0	289.0	257.0	318.5	323.8	375	381.0	50.8	13
350	14	585	358.1	359.2	-	360.2	333.4	317.6	284.2	333.5	317.5	284.0	355.6	355.6	425	412.8	54.0	13
400	16	650	409.0	410.5	-	411.2	381.0	363.6	325.4	381.0	363.5	325.5	406.4	406.4	483	469.9	57.2	13
450	18	710	460.0	461.8	-	462.3	428.6	409.6	366.8	428.5	409.5	366.5	457.2	457.0	533	533.4	60.4	13
500	20	775	511.0	513.1	-	514.4	477.8	455.6	408.0	478.0	455.5	408.0	508.0	508.0	587	584.2	63.5	13
600	24	915	613.0	616.0	-	616.0	574.6	547.8	490.6	574.5	547.5	490.5	609.6	610.0	702	692.2	69.9	13



RING JOINT



THREADED



LAP JOINT

Unit: mm

Length Thru Hub			Depth of Socket	Drilling			Ring Joint	Ring & Groove	Ring No	RTJTYPE			Approx. Weight(kg)				Nominal Pipe Size	
Slip-on Socket Thread	Lapped	Welding Neck		Bolt Circle	No of Bolt	Bolt Hole				Depth of Groove	Width of Groove	Radius of Groove	W.N	S.O	S.W	B.L		
T1	T2	T	Y	C	N	h	K	P		E	F	r1					mm	in
14	16	46	10	60.3	4	15.9	-	-	-	-	-	-	0.50	0.41	0.42	0.73	15	1/2
14	16	51	11	69.9	4	15.9	-	-	-	-	-	-	0.75	0.57	0.58	0.62	20	3/4
16	17	54	13	79.4	4	15.9	63.5	47.63	R15	6.35	8.74	0.8	1.02	0.78	0.80	0.87	25	1
19	21	56	14	88.9	4	15.9	73.0	57.15	R17	6.35	8.74	0.8	1.33	1.03	1.06	1.16	(32)	1 1/4
21	22	60	16	98.4	4	15.9	82.5	65.07	R19	6.35	8.74	0.8	1.72	1.32	1.35	1.54	40	1 1/2
24	25	62	17	120.7	4	19.1	102.0	82.55	R22	6.35	8.74	0.8	2.59	2.09	2.13	2.46	50	2
27	29	68	19	139.7	4	19.1	121.0	101.60	R25	6.35	8.74	0.8	4.06	3.25	3.35	3.99	65	2 1/2
29	30	68	21	152.4	4	19.1	133.0	114.30	R29	6.35	8.74	0.8	4.95	3.91	4.02	4.98	80	3
30	32	70	-	177.8	8	19.1	154.0	131.78	R33	6.35	8.74	0.8	6.08	4.86	4.99	6.20	(90)	3 1/2
32	33	75	-	190.5	8	19.1	171.0	149.23	R36	6.35	8.74	0.8	6.91	5.35	5.99	7.05	100	4
35	36	87	-	215.9	8	22.2	194.0	171.45	R40	6.35	8.74	0.8	8.75	6.22	6.68	8.67	125	5
38	40	87	-	241.3	8	22.2	219.0	193.68	R43	6.35	8.74	0.8	10.80	7.76	7.99	11.30	150	6
43	44	100	-	298.5	8	22.2	273.0	247.65	R48	6.35	8.74	0.8	18.00	12.60	13.29	19.90	200	8
48	49	100	-	362.0	12	25.4	330.0	304.80	R52	6.35	8.74	0.8	24.90	17.60	19.50	29.00	250	10
54	56	113	-	431.8	12	25.4	406.0	381.00	R56	6.35	8.74	0.8	38.60	27.80	29.03	43.70	300	12
56	79	125	-	476.3	12	28.5	425.0	396.88	R59	6.35	8.74	0.8	50.60	35.20	38.56	58.60	350	14
62	87	125	-	539.8	16	28.5	483.0	454.03	R64	6.35	8.74	0.8	63.90	45.30	44.49	76.60	400	16
67	97	138	-	577.9	16	31.8	546.0	517.53	R68	6.35	8.74	0.8	74.90	49.70	54.43	94.50	450	18
71	103	143	-	635.0	20	31.8	597.0	558.80	R72	6.35	8.74	0.8	93.50	63.50	70.31	123.00	500	20
81	111	151	-	749.3	20	34.9	711.0	673.10	R76	6.35	8.74	0.8	133.00	90.50	95.25	188.00	600	24

Unit: mm

Length Thru Hub			Depth of Socket	Drilling			Ring Joint	Ring & Groove	Ring No	RTJTYPE			Approx. Weight(kg)				Nominal Pipe Size	
Slip-on Socket Thread	Lapped	Welding Neck		Bolt Circle	No of Bolt	Bolt Hole				Depth of Groove	Width of Groove	Radius of Groove	W.N	S.O	S.W	B.L		
T1	T2	T	Y	C	N	h	K	P		E	F	r1					mm	in
21	22	51	10	66.7	4	15.9	51.0	34.14	R11	6.35	8.74	0.8	0.80	0.65	0.67	0.65	15	1/2
24	25	56	11	82.6	4	19.1	63.5	42.88	R13	6.35	8.74	0.8	1.25	1.10	1.12	1.09	20	3/4
25	27	60	13	88.9	4	19.1	70.0	50.80	R16	6.35	8.74	0.8	1.58	1.35	1.39	1.38	25	1
25	27	64	14	98.4	4	19.1	79.5	60.33	R18	6.35	8.74	0.8	2.05	1.69	1.74	1.82	(32)	1 1/4
29	30	67	16	114.3	4	22.2	90.5	68.27	R20	6.35	8.74	0.8	2.93	2.54	2.60	2.70	40	1 1/2
32	33	68	17	127.0	8	19.1	108.0	82.55	R23	7.92	11.91	0.8	3.40	2.92	3.02	3.18	50	2
37	38	75	19	149.2	8	22.2	127.0	101.60	R26	7.92	11.91	0.8	5.10	4.24	4.43	4.86	65	2 1/2
41	43	78	21	168.3	8	22.2	146.0	123.83	R31	7.92	11.91	0.8	7.01	5.94	6.21	6.90	80	3
43	44	79	-	184.2	8	22.2	159.0	131.78	R34	7.92	11.91	0.8	8.71	7.90	-	8.79	(90)	3 1/2
46	48	84	-	200.0	8	22.2	175.0	149.23	R37	7.92	11.91	0.8	11.30	9.71	-	11.60	100	4
49	51	97	-	235.0	8	22.2	210.0	180.98	R41	7.92	11.91	0.8	15.10	12.40	-	15.50	125	5
51	52	97	-	269.9	12	22.2	241.0	211.12	R45	7.92	11.91	0.8	19.60	16.20	-	21.20	150	6
60	62	110	-	330.2	12	25.4	302.0	269.88	R49	7.92	11.91	0.8	30.30	24.80	-	34.50	200	8
65	95	116	-	387.4	16	28.5	356.0	323.85	R53	7.92	11.91	0.8	44.30	35.90	-	53.90	250	10
71	102	129	-	450.8	16	31.8	413.0	381.00	R57	7.92	11.91	0.8	64.10	51.00	-	78.90	300	12
75	111	141	-	514.4	20	31.8	457.0	419.10	R61	7.92	11.91	0.8	88.30	70.10	-	106.00	350	14
81	121	144	-	571.5	20	34.9	508.0	469.90	R65	7.92	11.91	0.8	113.00	90.40	-	139.00	400	16
87	130	157	-	628.6	24	34.9	575.0	533.40	R69	7.92	11.91	0.8	138.00	109.00	-	175.00	450	18
94	140	160	-	685.8	24	34.9	635.0	584.20	R73	9.53	13.49	1.5	169.00	136.00	-	222.00	500	20
105	152	167	-	812.8	24	41.3	749.0	692.15	R77	11.13	16.66	1.5	248.00	204.00	-	340.00	600	24



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